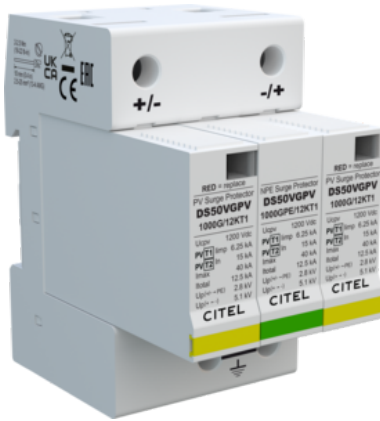




Type 1+2 PV surge protector

CITEL

DS50VGPV-1000G/12KT1



- Type 1+2 surge protector for Photovoltaic
- VG Technology
- No leakage, no operating currents
- Improved life expectancy
- Impulse currents I_{imp}/I_{total} : 6.25/12.5 kA (10/350 μ s)
- Common/Differential mode protection
- Pluggable module
- Remote signaling (option)
- UL1449 ed.5 compliance
- IEC 61643-31, EN 61643-31 certified



	Electrical Characteristics																																																																						
<p>V: High-energy varistor GSG: Specific Gas Tube Ft: Thermal fuse t*: Thermal disconnection system MI: Disconnection indicator</p>	<table border="1"> <tr> <td>SPD type</td> <td></td> <td>1+2</td> </tr> <tr> <td>Network</td> <td></td> <td>PV network 1000 Vdc</td> </tr> <tr> <td>Nominal PV voltage</td> <td>Uocstc</td> <td>1000 Vdc</td> </tr> <tr> <td>Max. PV operating voltage</td> <td>Ucpv</td> <td>1200 Vdc</td> </tr> <tr> <td>Residual Current</td> <td>Ipe</td> <td>None</td> </tr> <tr> <td>Leakage current to Ground</td> <td></td> <td></td> </tr> <tr> <td>PV Permanent Operating current</td> <td>Icpv</td> <td>None</td> </tr> <tr> <td>Current consumption at Ucpv</td> <td></td> <td></td> </tr> <tr> <td>Follow current</td> <td>If</td> <td>None</td> </tr> <tr> <td>Nominal discharge current</td> <td>In</td> <td>15 kA</td> </tr> <tr> <td>15 x 8/20 μs impulses</td> <td></td> <td></td> </tr> <tr> <td>Max. discharge current</td> <td>I_{max}</td> <td>40 kA</td> </tr> <tr> <td>max. withstand @ 8/20 μs by pole</td> <td></td> <td></td> </tr> <tr> <td>Total Maximum discharge current</td> <td>I_{max} Total</td> <td>60 kA</td> </tr> <tr> <td>max. total withstand @ 8/20 μs</td> <td></td> <td></td> </tr> <tr> <td>Impulse current by pole</td> <td>I_{imp}</td> <td>6.25 kA</td> </tr> <tr> <td>max. withstand 10/350μs by pole</td> <td></td> <td></td> </tr> <tr> <td>Total lightning current</td> <td>I_{total}</td> <td>12.5 kA</td> </tr> <tr> <td>max. total withstand @ 10/350μs</td> <td></td> <td></td> </tr> <tr> <td>Current withstand short circuit PV</td> <td>I_{scpv}</td> <td>15 000 A</td> </tr> <tr> <td>Protection mode(s)</td> <td></td> <td>Common/Differential mode</td> </tr> <tr> <td>Protection level +/- @ In (8/20μs)</td> <td>Up</td> <td>5.1 kV</td> </tr> <tr> <td>Protection level +/-PE (-/PE) @ In (8/20μs)</td> <td>Up</td> <td>2.8 kV</td> </tr> </table>		SPD type		1+2	Network		PV network 1000 Vdc	Nominal PV voltage	Uocstc	1000 Vdc	Max. PV operating voltage	Ucpv	1200 Vdc	Residual Current	Ipe	None	Leakage current to Ground			PV Permanent Operating current	Icpv	None	Current consumption at Ucpv			Follow current	If	None	Nominal discharge current	In	15 kA	15 x 8/20 μ s impulses			Max. discharge current	I _{max}	40 kA	max. withstand @ 8/20 μ s by pole			Total Maximum discharge current	I _{max} Total	60 kA	max. total withstand @ 8/20 μ s			Impulse current by pole	I _{imp}	6.25 kA	max. withstand 10/350 μ s by pole			Total lightning current	I _{total}	12.5 kA	max. total withstand @ 10/350 μ s			Current withstand short circuit PV	I _{scpv}	15 000 A	Protection mode(s)		Common/Differential mode	Protection level +/- @ In (8/20 μ s)	Up	5.1 kV	Protection level +/-PE (-/PE) @ In (8/20 μ s)	Up	2.8 kV
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